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OM protein - protein search, using sw model

Run on: September 4, 2002, 16:09:06 ; Search time 165.17 Seconds
(without alignments)
147.946 Million cell updates/sec

Title: US-09-052-089a-3
Perfect score: 1066
Sequence: 1 RTIINKLFEDIAQEENVID.....DLQADKREIMSKKLTMLQ 220

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues
Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: A.Geneseq_032802.*
2: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1980.DAT:*
3: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1981.DAT:*
4: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1982.DAT:*
5: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1983.DAT:*
6: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1984.DAT:*
7: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1985.DAT:*
8: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1987.DAT:*
9: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1988.DAT:*
10: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1989.DAT:*
11: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1990.DAT:*
12: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1991.DAT:*
13: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1992.DAT:*
14: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1993.DAT:*
15: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1994.DAT:*
16: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1995.DAT:*
17: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1996.DAT:*
18: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1997.DAT:*
19: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1998.DAT:*
20: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA1999.DAT:*
21: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA2000.DAT:*
22: /SIDS5/gcgcdata/geneseq/geneseq-emb1/AA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1046	98.1	469	19	BRCA1 modulator pr
2	1046	98.1	469	20	Amino acid sequenc
3	1068	15.8	962	20	Human transport-as
4	167.5	15.7	1017	22	Domestic mite Btl1
5	167	15.7	484	22	Human protein SEQ
6	167	15.7	533	22	Human protein SEQ
7	166.5	15.6	875	22	Domestic mite Btl1
8	166.5	15.6	878	22	Domestic mite Btl1
9	164	15.4	1374	22	Human male enhance
10	161	15.1	1325	18	Male-enhanced anti
11	161	15.1	20	AAW94391	Mouse male enhance

12	156	14.6	2482	16	AA72826	Human mitotin. Ho
13	156	14.6	2482	19	AAW23996	Human mitotin amin
14	156	14.6	3248	17	AA909795	Kinetochore protei
15	155	14.5	455	22	ABB61289	Drosophila melanog
16	154.5	14.5	808	22	ABG05140	Novel human diagno
17	154	14.4	1177	22	AA96721	Putative p. abyssal
18	153.5	14.4	1456	22	ABBS58673	Drosophila melanog
19	152	14.3	1489	22	ABBS59948	Drosophila melanog
20	152	14.3	1975	22	ABBS62094	Drosophila melanog
21	152	14.3	2057	22	ABBS71125	Drosophila melanog
22	151.5	14.2	463	22	ABG03671	Drosophila melanog
23	151.5	14.2	753	21	AA808316	A human M-phase ph
24	151.5	14.2	1780	22	AA838681	Human polyptide
25	151.5	14.2	1788	22	AAW40467	Human polyptide
26	151	14.2	561	19	AAW63043	Streptococcus uber
27	151	14.2	721	21	AAW21227	Protein encoded by
28	150	14.1	990	22	AAW78520	Human protein SEQ
29	149.5	14.0	1761	20	AAW15457	Human laminin beta
30	149	14.0	359	21	AA829659	Human membrane-ass
31	148.5	13.9	963	22	AAW78880	Human protein SEQ
32	148.5	13.9	979	22	AAW79864	Human protein SEQ
33	147.5	13.8	2056	22	ABBS9344	Drosophila melanog
34	147.5	13.8	2633	22	ABG06505	Novel human diagno
35	147.5	13.8	2663	22	AAW39097	Human polyptide
36	147.5	13.8	2688	22	AAW40883	Human polyptide
37	146	13.7	746	21	AAW46982	Arabidopsis thalia
38	146	13.7	788	21	AAW46981	Arabidopsis thalia
39	146	13.7	931	22	AAW79504	Human protein SEQ
40	145.5	13.6	1851	22	ABG01723	Novel human diagno
41	145.5	13.6	1960	22	AAW78854	Human protein SEQ
42	145.5	13.6	2143	22	ABG01716	Novel human diagno
43	145	13.6	1879	22	AAW25750	Human protein sequ
44	144.5	13.6	534	19	AAW46823	Amino acid sequenc
45	144.5	13.6	687	19	AAW41586	Truncated restlin p

ALIGNMENTS

RESULT	1	
AAW37881	AAW37881 standard; Protein: 469 AA.	
XX	XX	
AC	AAW37881;	
XX	XX	
DE	28-AUG-1998 (first entry)	
XX	XX	
DE	BRCA1 modulator protein 091-21A31.	
XX	XX	
KW	BRCA1 modulator protein; 091-21A31; breast cancer antigen 1;	
KW	tumour suppressor protein; diagnosis; therapy; human.	
XX	XX	
OS	Homo sapiens.	
XX	XX	
FH	Key	Location/Qualifiers
FT	Domain	3..54
FT	Domain	/note="zinc finger motif"
FT	Domain	229..255
FT	Domain	/note="leucine zipper motif"
PN	XX	
PD	WO9810066-A1.	
XX	XX	
PD	12-MAR-1998.	
XX	XX	
PF	06-AUG-1997;	97WO-US13944.
XX	XX	
PR	04-SEP-1996;	96US-0025601.
XX	XX	
PA	(ONYX-) ONYX PHARM INC.	
XX	XX	
PI	Ligandfelter C, Polakis P, Rubinfeld B, Vuong TT;	
XX	XX	
DR	WPI; 1998-193616/17.	

DR N-PSDB; AAV29062.
XX Breast cancer antigen 1 modulator protein - useful for diagnosing
PT diseases involving unwanted cell growth, e.g. breast cancer, and for
PT producing therapeutics for treatment of such diseases
XX
PS Example 1; Fig 1; 73pp; English.
XX
CC This polypeptide comprises a 53 kDa BRCA1 modulator protein that
CC binds to the tumour suppressor gene product BRCA1, and which is
CC characterised by a zinc finger domain and a leucine zipper motif.
CC Its amino acid sequence was deduced from the nucleotide sequence
CC of a cDNA clone (see AAV29062), designated 091-21A31 (ATCC 98141),
CC isolated from a HeLa cell cDNA library using a yeast two-hybrid
CC assay. 3 cDNA clones (see also AAV29063-64) coding for BRCA1
CC modulator proteins (see AAV37881-83) have been characterised. Vectors
CC and host cells comprising the isolated nucleic acid sequences are
CC claimed, as well as a process for producing BRCA1 modulator protein
CC by culturing these host cells. BRCA1 modulator proteins and nucleic
CC acids can be used to diagnose diseases involving unwanted cell
CC growth, e.g. breast cancer, and to identify compounds that alter
CC BRCA1 interaction with BRCA1 modulators for the treatment of such
CC diseases.
XX
SQ Sequence 469 AA:

Query Match 98.1%; Score 1046; DB 19; Length 469;
Best Local Similarity 98.6%; Pred. No. 7.1e-79;
Matches 217; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 RTIINKLFEDLAOEENLVLDREPLKNELDNRYAOLSOQDKERPSQVITDRLPTLEERN 60
Db 56 rtiinklffidlaageenlvldaeiflkneidnryaqlsgdkdkrdsqvildrlptleern 115

QY 61 ATVVSLOALKAEMCTSLKKQMYLEQODETRKQAOEAGRLRSKKTMEQIEELLQS 120
Db 116 atvvsllqgalgkaemclstlkkqmkyleqgdetkqageearlrtskmtmeqieelllqs 175

QY 121 QLPVEEMIRMGVGSQSAVEQDLAVYCVSLKKEVENLKARASGEVADKLKDLFSSRSK 180
Db 176 qrpveemlrimgvgqsavseqdlavycvslkkeyenlkearasgevadklrkdlfssrsk 235

QY 181 LQTVYSELDOAKLELKSQKDLQSDAKREIMSLKKRLTMIQ 220
Db 236 lqtvyselqaklelksaqkdlqsdakeimslkkrltmiq 275

RESULT 2
ID AAV30149 standard; Protein; 469 AA.
XX
AC AAV30149;
XX
DT 27-OCT-1999 (first entry)
XX
DE Amino acid sequence of a BRCA1 modulator protein.
XX
KM Modulator protein; BRCA1; tumour suppressor protein; breast cancer;
KM ovarian cancer; cell growth; cell proliferation.
XX
OS Homo sapiens.
XX
FH Key location/Qualifiers
FT Region 3..32 /note= "zinc finger motif"
FT Region 230..255 /note= "leucine zipper motif"
FT Region 230..255 /note= "leucine zipper motif"
XX
PN US5948643-A.
XX
OS
PD 07-SEP-1999.
XX

PE 13-AUG-1997; 97US-0968751.
XX
PR 13-AUG-1997; 97US-0968751.
XX
PA (ONYX-) ONYX PHARM INC.
XX
PI Lingenfelter C, Polakis PG, Rubinfield B, Vuong TT;
XX
DR WPI: 1999-517952/43.
DR N-PSDB; AAX86754.
XX
PT Modulator proteins that bind to and modulate the activity of the
PT BRCA1 tumour suppressor gene product, useful for the treatment of
PT ovarian and breast cancer
XX
PS Example 1; Fig 1; 35pp; English.
XX
CC The present sequence represents a modulator protein, that binds to and
CC modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1
CC protein has been characterized as a tumour suppressor protein.
CC Alterations in the amino acid sequence of BRCA1 causes breast and ovarian
CC cancers by removing the controls on cell growth and proliferation.
CC Research has shown that different regions on the BRCA1 molecule have
CC different effects on cell growth and tumour suppression (e.g. full length
CC truncated BRCA1 has no effect on breast cancer cell growth but will
CC inhibit ovarian cancer cell growth). It has been suggested that different
CC host cell factors (e.g. proteins) interact with different regions of the
CC BRCA1 to control its function. The identification of these proteins
CC (e.g. BRCA1MP) will facilitate the development of novel diagnostic
CC methods and new therapeutics for identifying and treating cancers caused
CC by changes in the expression or activity of BRCA1.
XX
SQ Sequence 469 AA:

Query Match 98.1%; Score 1046; DB 20; Length 469;
Best Local Similarity 98.6%; Pred. No. 7.1e-79;
Matches 217; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 RTIINKLFEDLAOEENLVLDREPLKNELDNRYAOLSOQDKERPSQVITDRLPTLEERN 60
Db 56 rtiinklffidlaageenlvldaeiflkneidnryaqlsgdkdkrdsqvildrlptleern 115

QY 61 ATVVSLOALKAEMCTSLKKQMYLEQODETRKQAOEAGRLRSKKTMEQIEELLQS 120
Db 116 atvvsllqgalgkaemclstlkkqmkyleqgdetkqageearlrtskmtmeqieelllqs 175

QY 121 QLPVEEMIRMGVGSQSAVEQDLAVYCVSLKKEVENLKARASGEVADKLKDLFSSRSK 180
Db 176 qrpveemlrimgvgqsavseqdlavycvslkkeyenlkearasgevadklrkdlfssrsk 235

QY 181 LQTVYSELDOAKLELKSQKDLQSDAKREIMSLKKRLTMIQ 220
Db 236 lqtvyselqaklelksaqkdlqsdakeimslkkrltmiq 275

RESULT 3
ID AAV31646 standard; Protein; 962 AA.
XX
AC AAV31646;
XX
DT 02-NOV-1999 (first entry)
XX
DE Human transport-associated protein-8 (TRAP-8).
XX
KM Transport-associated protein; TRAP; nuclear pore; nuclear transport;
KM vesicle trafficking; cancer; cystic fibrosis; multidrug resistance;
KM hypercholesterolaemia; diagnosis; treatment.
XX
OS Homo sapiens.
XX
FH Key location/Qualifiers
XX

FT	Modified-site	18	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	34	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	74	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	81	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	91	/note-	"O-phosphorylated by tyrosine kinase"
FT	Modified-site	101	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	123	/note-	"N-glycosylated"
FT	Modified-site	129	/note-	"N-glycosylated"
FT	Modified-site	243	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	336	/note-	"N-glycosylated"
FT	Modified-site	410	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	451	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	453	/note-	"N-glycosylated"
FT	Modified-site	585	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	631	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	632	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	717	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	754	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	758	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	780	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	844	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	882	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	890	/note-	"N-glycosylated"
FT	Modified-site	902	/note-	"O-phosphorylated by casein kinase II"
FT	Modified-site	/note-	"O-phosphorylated by casein kinase II"	
XX	WO9941373-A2.			
XX	19-AUG-1999.			
XX	05-FEB-1999;	99WO-US02527.		
XX	11-FEB-1998;	98US-0021764.		
XX	(INCY-)	INCYTE PHARM INC.		
PI	Au-Young J, Bandman O, Baughn MR, Corley NC, Guegler KJ;			
PI	Hallman JL, Lal P, Yue H;			
XX	WPI: 1999-508646/42.			
DR	N-PSDB; AAZ11738.			
XX				
PT	Human TRAMP coding sequences, used to treat transport disorders and			
PT	cancer			
XX	Claim 1; Page 74-77; 87pp; English.			
XX				
CC	This sequence represents human transport-associated protein-8 (TRAMP-8)			
CC	The DNA sequence was first identified in a human colon tissue			
CC	cDNA library. The full-length cDNA was derived from a series of			

Query	Match	Best Local Similarity	15.8%	Score 168	DB 20	Length 962
Matches	65	Conservative	62	Mismatches	85	Indels 110
						Gaps 7
QY	3	IINKLPEDLAQEEENVLDREFLNKELNDVNRALQSKDKKKRDSQVITDRLDPTLEERNAT	62			
Db	608	lfdfefklvkelegvltkaiykseedkkeevevkttleghdn--lvthykmirregldq	665			
QY	63	VVSLDQALG----KAEMLCSITLKAKMKATLBEQODE-----TQDAQ--	98			
Db	666	leelrtqgvstlkcgneqqlgtavtqgvsgldqghkddynllkldlgkdnghgysgagmn	725			
QY	99	----EAGRLRSKMTMTMOIELLOSOPLPEVEMIRDMGVGQSA-----	138			
Db	726	gigpceiigrileeeixkrngellqsgqltexdsmemmkssqstgtnegssaivsardse	785			
QY	139	VEQLAVVCVSLK-----	150			
Db	786	gvaelkgelatlcksglnsgvseiklqtekgellqkteafaksvevggetetliatkttd	845			
QY	151	-----KEYENIKKEARKKASGEVADKLKRDLFSSRSKLOTVSYSELDQAKTELKSQKD	201			
Db	846	vegrtsallgetkelkneikalseertaikbeqldssnstiallqtekdhleleltskke	905			
QY	202	-----TQSADKEIMSLKKKL	216			
Db	906	qddllvlladqdkkllsiknkl	927			
RESULT 4						
AAE02246						
ID	AAE02246 standard; Protein: 1017 AA.					
XX	AAE02246;					
DT	31-JUL-2001 (first entry)					
XX	Domestic mite Btl1 allergen polymorphic variant.					
DE	Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;					
KW	immediate hypersensitivity; systemic anaphylaxis; allergic rhinitis;					
KW	asthma; antiallergic; antiinflammatory; immunosuppressive.					
OS	Blomia tropicalis.					
XX	Key					
PH	Location/Qualifiers					

FT	Misc-difference	41	/note= "Encoded by TAG"
FT	Misc-difference	42	/note= "Encoded by TAG"
FT	Misc-difference	56	/note= "Encoded by TGA"
FT	Misc-difference	71	/note= "Encoded by TAA"
FT	Misc-difference	76	/note= "Encoded by TAG"
FT	Misc-difference	80	/note= "Encoded by TGA"
FT	Misc-difference	86	/note= "Encoded by TAA"
FT	Misc-difference	965	/note= "Encoded by TGA"
FT	Misc-difference	998	/note= "Encoded by TAA"
FT	Misc-difference	998	/note= "Encoded by TAA"
PN	WO200130817-A1.		
PD	03-MAY-2001.		
XX	10-OCT-2000; 2000WO-AU01227.		
PR	26-OCT-1999; 99SG-0005313.		
PR	18-JUL-2000; 2000AU-0008842.		
PR	18-JUL-2000; 2000AU-0008844.		
XX	18-JUL-2000; 2000AU-0008845.		
PA	(UYSI-) UNIV SINGAPORE NAT.		
PI	Chua KY, Cheong N, Lee BW;		
DR	WPI; 2001-308609/32.		
DR	N-PSDB; AAD06245.		
PT	Novel immunogenic protein derived from house mite, Blomia tropicalis		
PT	useful for treating and diagnosing conditions involving induction of		
PT	immune response to mite, such as allergic asthma, atopic dermatitis,		
PT	rhinits -		
PS	Claim 6; Fig 7; 230pp; English.		
XX	The present invention relates to immunogenic proteins, referred as Bt		
CC	allergen, is derived from domestic mite, Blomia tropicalis. The specific		
CC	Bt allergens of the invention includes Btl1, Bt10, Bt5 and BtA2. The		
CC	immunogenic protein is useful for preventing, reducing or ameliorating		
CC	Blomia tropicalis hypersensitivity condition such as atopic dermatitis,		
CC	immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or		
CC	asthma and for modulating an immune response directed to Bt allergen in		
CC	a subject. The Bt allergens are also useful for detecting antibody		
CC	directed to all or a part of Bt allergen in a biological sample from a		
CC	subject. Antibodies to Bt allergens are also used as therapeutic or		
CC	diagnostic agents, to screen Bt immunoassays and as antagonists to		
CC	inhibit Bt activity under circumstances where temporary hypersensitivity		
CC	inhibition is required. The present sequence is a protein encoded		
CC	by Btl1 polymorphic variant.		
XX	Sequence 1017 AA;		

QY 74 ---ENL-----CSTLKKQKMYLEQOOD-----EKKQAEAGLRLSKMTMEIYELLLOS 120
 Db 412 eyeeglealllnkcsalekqkarlyseaeavlmdlekatnagalektrvsqleklnldlks 471
 QY 121 OLPEEEEARIDMGQSAVEQLAVYCVSLKK---EYENLKEARKASGEVADKLRLKDFSS 177
 Db 472 kleeasmll-----eqtqkdlrlxidlqlqheyeeklrldqcklaarenkklaaddlaea 525
 QY 178 RSKLTQVYSELDAQKLEK---SAQKDLQSAADKEIYMSLKK 215
 Db 526 ksglndahrrihegelelkrlemerelaayxeneellrfqx 566
 RESULT 5
 AAM78985
 ID AAM78985 standard; Protein: 484 AA.
 XX
 AC AAM78985;
 XX
 DT 06-NOV-2001 (first entry)
 XX
 DE Human protein SEQ ID NO 1647.
 XX
 KW Human: cytokine; cell proliferation; cell differentiation; gene therapy;
 KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
 KW tissue growth factor; immunomodulatory; cancer; leukaemia;
 KW nervous system disorder; arthritis; inflammation.
 XX
 OS Homo sapiens.
 XX
 PN WO200157190-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 05-FEB-2001; 2001MO-US04098.
 XX
 PR 03-FEB-2000; 2000US-0496914.
 PR 27-APR-2000; 2000US-0560875.
 PR 20-JUN-2000; 2000US-0598075.
 PR 19-JUL-2000; 2000US-0620325.
 PR 01-SEP-2000; 2000US-0654936.
 PR 15-SEP-2000; 2000US-0663561.
 PR 20-OCT-2000; 2000US-0693325.
 PR 30-NOV-2000; 2000US-0728422.
 PR
 PA (HYSE-) HYSEQ INC.
 XX
 PI Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
 PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
 PI Xue AJ, Yang Y, Wejthman T, Goodrich R;
 XX
 WP1: 2001-476283/51.
 DR N-PSDB; AAK52118.
 XX
 PT Nucleic acids encoding polypeptides with cytokine-like activities,
 PT useful in diagnosis and gene therapy -
 XX
 Claim 20; Page 3984-3985; 6221pp; English.
 PS
 XX The invention relates to polynucleotides (AAK51456-AAK53435) and the
 CC encoded polypeptides (AAM78323-AAW80302) that exhibit activity elating to
 CC cytokine, cell proliferation or cell differentiation or which may induce
 CC production of other cytokines in other cell populations. The
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, haematopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC activin/inhibin activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
 CC inflammation.
 CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
 CC (AAM80020) are omitted as the relevant pages from the sequence listing

CC were missing at the time of publication.

SQ Sequence 484 AA;

Query Match	15.7%	Score 167;	DB 22;	Length 484;
Best Local Similarity	24.2%	Pred. No. 7.6e-06;		
Matches 58;	Conservative 50;	Mismatches 94;	Indels 38;	Gaps 7;

OY	6	KLEPFAEEENVDREFLKNELDNVRQLOSKQKREKSDQVIIDTLRDLTEENRATYVS	65
Db	27	kmlvdvkerkvnyigk-----kieillegirlqekqmsljevksylqatntdntalt	81
OY	66	LOALGKAEMCSTLKKOMKXYLEOODBETKOAGEAGRLRSKMXTMEQITELLQSOLPEV	122
Db	82	leeaatekertlerlk-----egrdrderekggeidnykkldlkdlekvsligqdlsek	133
OY	126	EMETDMGVGS-----AVEQLAVYCV---SLKKEYENLKEARKAS	167
Db	136	easllidlkheasslasagllkksrllktlalelegkeecllmesqllkhaalear-as	194
OY	164	GEVAD---LKKDLESSSKLTQYVSELDQAKLELKSQKQLQSDAKREYMSLKKKRLTLQ	222
Db	195	pemsdrfqlherelertlyydesksaqeavdrlllellkevenekndkdklael-slsfstrq	257

RESULT 6
AAM79969

ID AAM79969 standard; Protein; 533 AA.

AC AAM79969;

DT 06-NOV-2001 (first entry)

DE Human protein SEQ ID NO 3615.

KM Human; cytokine; cell proliferation; cell differentiation; gene therapy
KM vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KM tissue growth factor; immunomodulatory; cancer; leukaemia;
KM nervous system disorder; arthritis; inflammation.

OS Homo sapiens.

PN W0200157190-A2.

PD 09-AUG-2001.

PF 05-FEB-2001; 2001WO-US04098.

PR	03-FEB-2000	2000US-0406914
PR	27-APR-2000	2000US-0560875
PR	20-JUN-2000	2000US-0538075
PR	19-JUL-2000	2000US-0620325
PR	01-SEP-2000	2000US-0645936
PR	15-SEP-2000	2000US-0663561
PR	20-OCT-2000	2000US-0663325
PR	30-NOV-2000	2000US-0728422

PA (HYSE-) HYSEQ INC.

PI Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y
PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW,
PI Xue AJ, Yang Y, Wejhrman T, Goodrich R,
XX
WPI: 2001-476283/51.
DR N-PSDB: AAK53102.

PT Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -

CC The invention relates to polynucleotides (AAK51456-AAK53435) and the

CC encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC
CC Note: Records for SEQ ID NO 2110 (AAK52561), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.

50 Sequence 533 AA;

Query Match	15.7%	Score 167	DB 22	Length 533
Best Local Similarity	24.2%	Pred. No. 8.6e-06		
Matches 58; Conservative		50; Mismatches 94	Indels 38	Gaps 7

```
QY 6 KLEFDLQAEENVLDREFLKNELNDNVRAQLSQKDEKRDQSÖVIIDTLRDTLEERNATVVS 65
      | : : : | | : : : : | | : : : :
Db 76 kAmldvkerkvnvlgk-----kienlgeqlrdkcekamslkervvslqadtntdaltt 130
```

QY 66 LQQAALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEAGRLRSKMKTMQIELLLOSQLPV 125

Db 131 lealaekertierlk-----eqdrderekgeeidnykkdklkeksllqgdisek 184

QY 126 EEMIRDMGVGQS-----AVEQLAVYCV----SLKKEYENLKEARKAS 163

Db 185 easl1dikehass1assg1kkdsr1ktle1aleqkkeeclkmesg1kkahealear-as 243

```

Qy      164  GEVADK---LRKDLFSRSKLTQTVYSELDQAKLELKSQAQDLOQADAKEMSLKKKLTMLQ  220
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db      244  pemsdrighlereitrykdessagaevdrlllellkevenekndkkrkkael-esltsrq  302

```

RESULT 7

ID AAE02245 standard; Protein; 875 AA

AC AAE022457

DT 31-JUL-2001 (first entry)

DE Domestic mite Bt11 allergen

Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;

KW	asthma; antiallerg
XX	
OS	Blomia tropicalis

PN WO200130817-

PD	03-MAY-2001.
XX	
PF	10-OCT-2000; 2000WO-AU01227

XX (UYSI-) UNIV SINGAPORE NAT.
PA

PT Novel immunogenic protein derived from house mite, *Blomia tropicalis*

PT useful for treating and diagnosing conditions involving induction of
PT immuneresponse to mite, such as allergic asthma, atopic dermatitis,
PT rhinitis

PS Disclosure: Page 162-166; 230pp; English.

XX The present invention relates to immunogenic proteins, referred to as Bt
CC allergens, derived from domestic mite (Blomia tropicalis). The specific
CC Bt allergens of the invention includes Btl1, Btl0, Bt5 and BtA2. The
CC immunogenic protein is useful for preventing, reducing or ameliorating
CC Blomia tropicalis hypersensitivity condition, such as atopic dermatitis,
CC immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or
CC asthma and for modulating an immune response directed to Bt allergen in
CC a subject. The Bt allergens are also useful for detecting antibody
CC directed to all or a part of Bt allergen in a biological sample from a
CC subject. Antibodies to Bt allergens are also used as therapeutic or
CC diagnostic agents, to screen Bt immunoassays and as antagonists to
CC inhibit Bt activity under circumstances where temporary hypersensitivity
CC inhibition is required. The present sequence is Btl1 allergen.

XX Sequence 875 AA;

Query Match 15.6%; Score 166.5; DB 22; Length 875;
Best Local Similarity 22.8%; Pred. No. 1.7e-05;
Matches 64; Conservative 60; Mismatches 74; Indels 83; Gaps 11;

QY 11 LAQEEENVLD--REFLKNELDN---VRAQLSQ-----KDKRKRS-----QV 47
Db 204 lsgenseikeyhey-kislndanhlkqjagqledtrhrledeerksslenhantlev 262

QY 48 IIDTLRDTLEERNATVSLQALGKA----- 73
Db 263 elesikvgleesearleqltkangdaaswkyaealqahvdeveelrrkmaqkis 322

QY 74 ---EML-----CSTLKKQMKVLEQQD---ETKQAEERGRLSKKMTMEQIELLIQS 120
Db 323 eygeqgleallnkcsalekqkarlgsevevlmdlekatahaqalekrysgleklnldiks 382

QY 121 QLPVEEEMIRDMVGQSAVEOLAVYCVSLKK---EYENLKEARKASGEVADKLKRDLPSS 177
Db 383 kleevsmll-----eqgkdlrvkiadlqklqheyeklrqgkealarenkkladdlaea 436

QY 178 RSKLQTVYSELDAQLELKK---SAQKDLQASDKKEIMSLKK 215
Db 437 ksqldanhrtrihgeielkrlenereelaayaakeetlirkq 477

RESULT 8

AAE02242
ID AAE02242 standard; Protein: 878 AA.

XX AAE02242;

XX 31-JUL-2001 (first entry)

DE Domestic mite Btl1 allergen #7.

KW Mite; immunogenic protein; Bt allergen; therapy; atopic dermatitis;
KW immediate hypersensitivity; systemic anaphylaxis; allergic rhinitis;
KW asthma; antiasthma; antiinflammatory; immunosuppressive.

XX Blomia tropicalis.

XX WO200130817-A1.

PD 03-MAY-2001.

PE 10-OCT-2000; 2000WO-AU01227.

PR 26-OCT-1999; 99SG-0005313.

PR 18-JUL-2000; 2000AU-000842.

PR 18-JUL-2000; 2000AU-000844.

PR 18-JUL-2000; 2000AU-000845.

XX (UYSI-) UNIV SINGAPORE NAT.

PI China KY, Cheong N, Lee BW;

DR WPI; 2001-308609/32.

DR N-PSDB; AAD06236.

PT Novel immunogenic protein derived from house mite, Blomia tropicalis
PT useful for treating and diagnosing conditions involving induction of
PT immuneresponse to mite, such as allergic asthma, atopic dermatitis,
PT rhinitis

PS Claim 4; Fig 3; 230pp; English.

XX The present invention relates to immunogenic proteins, referred as Bt
CC allergen, is derived from domestic mite, Blomia tropicalis. The specific
CC Bt allergens of the invention includes Btl1, Btl0, Bt5 and BtA2. The
CC immunogenic protein is useful for preventing, reducing or ameliorating
CC Blomia tropicalis hypersensitivity condition, such as atopic dermatitis,
CC immediate hypersensitivity, systemic anaphylaxis, allergic rhinitis or
CC asthma and for modulating an immune response directed to Bt allergen in
CC a subject. The Bt allergens are also useful for detecting antibody
CC directed to all or a part of Bt allergen in a biological sample from a
CC subject. Antibodies to Bt allergens are also used as therapeutic or
CC diagnostic agents, to screen Bt immunoassays and as antagonists to
CC inhibit Bt activity under circumstances where temporary hypersensitivity
CC inhibition is required. The present sequence is Btl1 allergen.

XX Sequence 878 AA;

Query Match 15.6%; Score 166.5; DB 22; Length 878;
Best Local Similarity 22.8%; Pred. No. 1.8e-05;
Matches 64; Conservative 60; Mismatches 74; Indels 83; Gaps 11;

QY 11 LAQEEENVLD--REFLKNELDN---VRAQLSQ-----KDKRKRS-----QV 47
Db 207 lsgenseikeyhey-kislndanhlkqjagqledtrhrledeerksslenhantlev 265

QY 48 IIDTLRDTLEERNATVSLQALGKA----- 73
Db 266 elesikvgleesearleqltkangdaaswkyaealqahvdeveelrrkmaqkis 325

QY 74 ---EML-----CSTLKKQMKVLEQQD---ETKQAEERGRLSKKMTMEQIELLIQS 120
Db 326 eygeqgleallnkcsalekqkarlgsevevlmdlekatahaqalekrysgleklnldiks 385

QY 121 QLPVEEEMIRDMVGQSAVEOLAVYCVSLKK---EYENLKEARKASGEVADKLKRDLPSS 177
Db 386 kleevsmll-----eqgkdlrvkiadlqklqheyeklrqgkealarenkkladdlaea 439

QY 178 RSKLQTVYSELDAQLELKK---SAQKDLQASDKKEIMSLKK 215
Db 440 ksqldanhrtrihgeielkrlenereelaayaakeetlirkq 480

RESULT 9

AAB69070
ID AAB69070 standard; Protein: 1374 AA.

XX AAB69070;

XX 19-APR-2001 (first entry)

DE Human male enhanced antigen-2 (MEA-2) protein sequence SEQ ID NO:2.

KW Human; male enhanced antigen-2; MEA-2; identification; spermatogenesis;
KW spermatogenesis disease; chromosome marker; pancreatic cancer.

XX Homo sapiens.

PN JP2000316580-A.
 XX
 PD 21-NOV-2000.
 XX
 PF 30-APR-1999; 99JP-0125196.
 XX
 PR 30-APR-1999; 99JP-0125196.
 XX
 PA (ITOH-) ITO HAM KK.
 XX
 DR WPI: 2001-128256/14.
 DR N-PSDB; AAF32308.
 XX
 PT A new protein, human male-enhanced antigen-2, useful for detecting
 PT spermatogenesis diseases -
 XX
 PS Claim 1; Page 12-15; 21pp; Japanese.
 XX
 CC The present sequence represents the human male enhanced antigen-2
 CC (MEA-2). The present invention also described an antibody specific for
 CC the MEA-2 protein. The antibody can be used for the identification of a
 CC gene causing diseases related to spermatogenesis. The MEA-2 nucleotide
 CC sequence is useful as a chromosome marker, and in the detection of
 CC pancreatic cancer.
 XX
 SQ Sequence 1374 AA;

Query Match 15.4%; Score 164; DB 22; Length 1374;
 Best Local Similarity 25.0%; Pred. No. 4.9e-05;
 Matches 60; Conservative 46; Mismatches 96; Indels 38; Gaps 7;

QY 13 QEEENVLDREFLNKNELD-----NVRAQLSQDKERKRDQYITDRLRPLEERNATVYSL 66
 Db 1116 rehmsiletalakreadvqlnlgvgavlgqrkeeedrqmknlgvalgslekekevnsi 1175
 QY 67 QOALGKAEMLCSTLKKOMKYLEOODETK-----QAOEAGRLRSKMKTWE- 112
 Db 1176 keyvaakaveghnrirfkaaslelsevkkelgakehnlvgklqgeadlqlregkhsgei 1235
 QY 113 ---QIEL-----LLQSQLEPEVEEMIRDMGVGQSAVEQALAVYCVSLKREYNLEKARK 161
 Db 1236 aqfqaelaearaqqlilqkql---deqlskqpvngemenlkwevdqkereiqlkqql 1292
 QY 162 ASGEVADKLRLKRDFFSSRSKLOTYVSELDOAKLELSAOKDLOSADKEIMSLKKTL-TMLQ 220
 Db 1293 lteggq---lkeleglqqlnkvkselemagedlsmtdkdfm]qakvselknmktllq 1349

RESULT 10
 AAW19540
 ID AAW19540 standard; Protein: 1325 AA.
 XX
 AC AAW19540;

DT 16-SEP-1997 (first entry)
 XX
 DE Male-enhanced antigen-2.
 XX
 KW Mouse; MEA-2; detecting mutation.
 XX
 OS Mus musculus domesticus.
 XX
 FT Key Location/Qualifiers
 FT Misc-difference 305..320
 FT /note= "Not shown in the specification"
 XX
 PN JF09121869-A.
 XX
 PD 13-MAY-1997.
 XX
 PF 07-NOV-1995; 95JP-0311638.
 XX

PR 07-NOV-1995; 95JP-0311638.
 XX
 PA (ITOH-) ITO HAM KK.
 XX
 DR WPI: 1997-314229/29.
 DR N-PSDB; AAT74034.
 XX
 PT Male-enhanced antigen Mea-2 gene - especially from mouse, useful for
 PT detecting mutation(s)
 XX
 PS Claim 8; Page 9-10; 13pp; Japanese.
 XX
 CC The present sequence represents male-enhanced antigen-2 (MEA-2), which
 CC has been derived from a domestic mouse. The polynucleotide encoding
 CC the protein can be used for the detection of mutations affecting the
 CC MEA-2 gene.
 XX
 SQ Sequence 1325 AA;

Query Match 15.1%; Score 161; DB 18; Length 1325;
 Best Local Similarity 23.1%; Pred. No. 8.4e-05;
 Matches 57; Conservative 48; Mismatches 90; Indels 52; Gaps 7;

QY 13 QEEENVLDREFLNKNELD-----NVRAQLSQDKERKRDQYITDRLRPLEERNATVYSL 66
 Db 966 rehmsiletalakreadvqlnlgvgavlgqrkeeedrqmknlgvalgslekekevnsi 1025
 QY 67 QOALGKA-----EMICSTLKKOMKYLEOQ---ODET 94
 Db 1026 kegnaaaieaghnrrhfkaatllelsevkkelgakehnlvgklqgeadqlqdqkhsgei 1085
 QY 95 KOAEAGRLRSKMKTMEQIELLLQSQLEPEVEEMIRDMGVGQSAVEQALAVYCVSLKREYE 154
 Db 1086 aqfqtelaearqlq-----llqkkl---deqmsqgprysgemedlkweidqkerei 1135
 QY 155 NLKEARKASGEVADKLRLKRDFFSSRSKLOTYVSELDOAKLELSAOKDLOSADKEIMSLKK 214
 Db 1136 slkqqldttegg---kkelegtgqltqlkselemagedlseqkdfm]qakvselkn 1192
 QY 215 KL-TMLQ 220
 Db 1193 nmktllq 1199

RESULT 11
 AAW94391
 ID AAW94391 standard; Protein: 1325 AA.
 XX
 AC AAW94391;

DT 14-APR-1999 (first entry)
 XX
 DE Mouse male enhanced antigen 2.
 XX
 KW Mouse; male enhanced antigen 2; MEA-2; Mus musculus domesticus;
 KW spermatogenesis; regulation; contraceptive; sterile; inhibition.
 XX
 OS Mus sp.
 XX
 PN JP11018622-A.
 XX
 PD 26-JAN-1999.
 XX
 PF 04-JUL-1997; 97JP-0179490.
 XX
 PR 04-JUL-1997; 97JP-0179490.
 XX
 PA (ITOH-) ITO HAM KK.
 XX
 DR WPI: 1999-160962/14.
 DR N-PSDB; AAX04132.
 XX

PT Regulation of spermatogenesis using Mea-2 gene information - using
 PT anti-sense oligo- or poly:nucleotide(s), used for production of
 PT contraceptives
 XX
 XX
 PS Claim 4; Page 8-12; 27pp; Japanese.
 XX
 CC The present sequence represents mouse male enhanced antigen 2 (Mea-2).
 CC The present invention describes the regulation of spermatogenesis by
 CC using Mea-2 information. A non-human living organism can have its
 CC spermatogenesis inhibited by breakage of the whole or part of the Mea-2
 CC gene. Also described are: (1) the creation of the spermatogenesis-
 CC inhibited organism; (2) a drug composition containing an oligonucleotide
 CC or polynucleotide containing base sequences that pair with at least part
 CC of the Mea-2 gene and are able to inhibit the expression of Mea-2 gene;
 CC and (3) the creation of an aimed gene-possessing organism using the
 CC spermatogenesis inhibited organism. The organism is useful for producing
 CC contraceptive drugs.
 CC
 XX
 XX Sequence 1325 AA;
 SQ
 Query Match 15.18; Score 161; DB 20; Length 1325;
 Best Local Similarity 23.18; Pred. No. 8.4e-05;
 Matches 57; Conservative 48; Mismatches 90; Indels 52; Gaps 7;
 QY 13 QEEENVLDREFLNKELD-----NVRALQSOKDEKRDSDYIIDTLRDLTEERNATVYSL 66
 Db 966 rehmsiletaakreadlvqnllygavlyqrkeedrqmkqlvqalqyslekekevnsl 1025
 QY 67 QOALGKA-----EMLCSTLKQKMKYLEOO---QDET 94
 Db 1026 keqmaaaieaghnrhfkkaatlleisevkkqlqakehlvgtlqaevedlqldqgkhsgei 1085
 QY 95 KQAGEEAGRLSKMKTMTQFIELLOSQLPEVEMIRDMGVGOSAVEOLAVYCVSLKREYE 154
 Db 1086 aqfqtelaearltq-----llqkxl---deqmsqgptsgqmedlkweldqkereiql 1135
 QY 155 NLKEARKASGEVADLRKDLFSSRSKLTQVYSELDQAKLELSAOKDQSDADKEIMS LK 214
 Db 1136 slkqqldtetegq---kkelgqtgtlqtlkselemvgedlsecdkfmqakvselkn 1192
 QY 215 KL-TMLQ 220
 Db 1193 nmktllq 1199
 RESULT 12
 AAR72826
 ID AAR72826 standard; Protein; 2482 AA.
 XX
 AC AAR72826;
 XX
 DT 27-FEB-1996 (first entry)
 XX
 DE Human mitotin.
 XX
 KW Cell cycle; M phase; mitotin; retinoblastome; mitosis; cell growth;
 inhibition.
 KW
 XX Homo sapiens.
 OS
 XX
 FH Key Location/Qualifiers
 FT Region 1480..1659
 FT /label= Internal_repeat
 FT Region 1660..1839
 FT /label= Internal_repeat
 XX
 PN WO9511309-A2.
 PD 27-APR-1995.
 XX
 PF 24-OCT-1994; 94WO-US12162.
 XX

PR 22-OCT-1993; 93US-0141239.
 XX
 PA (TEXA) UNIV TEXAS SYSTEM.
 XX
 PI Lee W, Zhu X;
 XX
 DR WPI: 1995-170229/22.
 DR N-PSDB; AAQ66851.
 XX
 PT Purified mammalian protein mitotin and agents that bind it and
 PT inhibit its action - used to promote cell growth or to inhibit cell
 PT division and/or proliferation
 XX
 PS Claim 4; Fig 8B; 61pp; English.
 XX
 CC AAR72829 is human mitotin. Mitotin is involved in the regulation of
 CC the mammalian mitotic cell cycle. Mitotin as with E2F-1 (see AAR72824)
 CC interacts with the retinoblastoma protein (the retinoblastoma tumour
 CC suppressor gene product). Mitotin is first synthesised at the G1/S
 CC boundary, it is then phosphorylated from S through M phase, and during
 CC mitosis, is closely associated with the centromeres/kinetochores at the
 CC mitotic spindle poles. Mitotin is necessary for a eukaryotic cell to
 CC enter the M phase of the mitotic cell cycle and its degradation is
 CC necessary for a cell to advance on to the next stage. Mitotin is thus
 CC useful for controlling cell growth as overexpression of mitotin prevents
 CC a cell from exiting the M phase.
 CC An anti-mitotin antibody, antibody fragment or a phosphorylated mitotin
 CC muterin (or nucleic acid encoding it) can also be used to inhibit cell
 CC division which is particularly useful for the study of the cell cycle.
 CC A further use is to control hyperproliferative cells, and so control
 CC diseases such as psoriasis and breast cancer. It can also be used to
 CC block gametogenesis of an immature gamete.
 CC
 XX
 SQ Sequence 2482 AA;
 Query Match 14.68; Score 156; DB 16; Length 2482;
 Best Local Similarity 23.68; Pred. No. 0.00047;
 Matches 57; Conservative 55; Mismatches 90; Indels 40; Gaps 7;
 QY 19 LDREFLNKELNVRALQSOKDEKRDSDYIIDTLRDLTEERNATVYSLQOALGKA-EMLC 77
 Db 1571 ldylvlrsekenltkqkqgqslsldkllsfskllsekeqaelqkkesktavenlq 1630
 QY 78 STLKQO-----MKYLEOOD-----EFKQAGEEAGRLSKMKTMTQFIELLOQS 120
 Db 1631 nqlkeineavaalqgdqemkateqslidpleehqnlstektirarleaekqylq 1690
 QY 121 QLPF-----VEEMIRDMGVGOSAVEOLAVYCVSLKREYENLKEARKASGEVADK 169
 Db 1691 qlkesehnadllkgrvenlelelartngqhaaleaenskgyetlklaklegmqslrg 1750
 QY 170 LRKDLFSSRSKLTQVYSELDQ-----AKLEL--KSAQKDQSDADKEIMS LK 218
 Db 1751 leldavtlrsekenltelqegerlsetelinsfennllqeqekvqmkkksstamen 1810
 QY 219 LQ 220
 Db 1811 lq 1812
 RESULT 13
 AAW23996
 ID AAW23996 standard; Protein; 2482 AA.
 XX
 AC AAW23996;
 XX
 DT 28-MAY-1998 (first entry)
 XX
 DE Human mitotin amino acid sequence.
 XX
 KW Mitotin; phosphoprotein; mitotic cell cycle; antibody; analogue;
 inhibition; M phase; Antagonist; hyperproliferative cell; cancer;
 KW

KM		leukemia; Lymphoma; chromosome segregation.
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Domain	258..280
FT		/note-"Leucine heptad repeat"
FT	Domain	340..362
FT	Domain	364..393
FT	Domain	1387..1443
FT	Domain	1885..1962
FT	Domain	2146..2188
FT	Domain	2165..2187
FT		/note-"Leucine heptad repeat"
FT	Misc-difference	2188
FT	Misc-difference	2300
FT		/label="Bipartite targeting motif"
FT		/note-"Optionally C or G"
FT	Misc-difference	2189
FT	Misc-difference	2301
FT	Misc-difference	2303
FT		/label="Bipartite targeting motif"
FT		/note-"Optionally A or T"
XX		
PN	US5710022-A.	
XX		
XD	20-JAN-1998.	
XX		
PF	24-OCT-1994;	94US-0328254.
XX		
PR	24-OCT-1994;	94US-0328254.
PR	22-OCT-1993;	93US-0141239.
XX		
PA	(TEXA) UNIV TEXAS SYSTEM.	
XX		
PI	Lee W, Zhu X;	
XX		
DR	WPI: 1998-109817/10.	
DR	N-PsDB: AA09076.	
PT	New isolated mitotin protein and gene - useful for, e.g. developing	
PT	products for therapy and diagnosis of hyper-proliferative disorders	
PT	such as cancers or psoriasis	
XX		
PS	Claim 1; Column 40-52; 43pp; English.	
XX		
CC	This is the amino acid sequence for mitotin, a phosphoprotein	
CC	necessary for the cell to ente mitosis. The protein's degradation is	
CC	also necessary for the cell to advance into the next stages of mitosis.	
CC	The mitotin protein, can be used to control the growth of cells. An	
CC	anti-mitotin antibody, a mutant or a non-functional analogue of mitotin	
CC	can inhibit the mitotic cell cycle by preventing the cells from entering	
CC	the M phase, and over expression of mitotin or its functional	
CC	equivalent, would inhibit the cycle by preventing cells from leaving the	
CC	M phase. Antagonists to this protein can be used to control	
CC	hyperproliferative cells in, (e.g. thyroid hyperplasia, Grave's disease,	
CC	psoriasis, benign prostatic hypertrophy, Li-Fraumeni syndrome, breast	
CC	cancer, sarcomas and other neoplasms, bladder cancer, colon cancer,	
CC	lung cancer and various leukemias and lymphomas). Reintroduction or	
CC	supplementation of lost mitotin function by introduction of the protein	
CC	or nucleic acid encoding the protein into a cell can restore defective	
CC	chromosome segregation, which is a marker of progressing malignancy.	
CC	Malignant proliferation of cells can then be halted. The protein	
CC	cells.	
CC	can also be used for the detection and diagnosis of hyperproliferative	
XX		
Sequence	2482 AA:	
90		
XX		

Query Match	14.6%;	Score 156;	DB 19;	Length 2482;
Best Local Similarity	23.6%;	Pred. No. 0.00047;		
Matches 57;	Conservative 55;	Mismatches 90;	Indels 40;	Gaps 7;

[illegible]

RESULT	14
AAR99795	
ID	AAR99795 standard; Protein; 3248 AA.

AC AAR99795;

DT 08-OCT-1996 (first entry)

DE Kinetochore protein CENP-F.

KW Kinetochore protein; CENP-F; cell cycle; cancer; diagnosis;

XX

05 Homo sapiens.

FH	Key	Location/Qualifiers
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
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89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

ET Domain

ET Domain

ET Domain

13

FT Domain

FT Domain

FT Domain

13

13

PN W09617

PD 13-JUN

PF 08-DEC

PR 09-DEC

PA (FOXC-)

XX

XX

DR N-PSDB

PT DNA en

/note= "the C-terminal domains predicted to form a proline-rich (10.68) highly basic (PI 10) globular domain"
 WO9617867-A1.
 13-JUN-1996.
 08-DEC-1995; 95WO-US16216.
 09-DEC-1994; 94US-0353700.
 (FOXO-) FOX CHASE CANCER CENT.
 (UYTE-) UNIV TECHNOLOGIES INT INC.
 Ratlner JB, Yen TJ;
 WPI: 1996-287116/29.
 N-PSDB; AAT34578.
 DNA encoding kinetochore protein - used as a marker for the G2 and M phases of a cell cycle, partic. for detection of malignant diseases

AC	ABG0367L;
XX	
DT	13-FEB-2002 (first entry)
XX	
DE	Novel human diagnostic protein #3662.
XX	
KW	Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX	food supplement; medical imaging; diagnostic; genetic disorder.
OS	Homo sapiens.
XX	
PN	WO200175067-A2.
XX	
PD	11-OCT-2001.
XX	
PF	30-MAR-2001; 2001WO-US08631.
XX	
PR	31-MAR-2000; 2000US-0540217.
PR	23-AUG-2000; 2000US-0649167.
XX	
PA	(HYSE-) HYSEQ INC.
XX	
PI	Drmnac RT, Liu C, Tang YT;
XX	
DR	WPI: 2001-639362/73.
XX	
DR	N-PSDB: AAS67858.
XX	
PT	New isolated polynucleotide and encoded polypeptides, useful in
PT	diagnostics, forensics, gene mapping, identification of mutations
PT	responsible for genetic disorders or other traits and to assess
PT	biodiversity -
XX	
PS	Claim 20; SEQ ID NO 34030; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at [ftp.wipo.int/pub/published_pat_sequences](http://wipo.int/pub/published_pat_sequences).
XX
SQ Sequence 463 AA:

	Query Match	14.2%	Score 151.5:	DB 22:	Length 463;	
	Best Local Similarity	24.7%:	Pred. No. 0.00014:			
	Matches 61:	Conservative 43;	No. matches 102;	Indels 41;	Gaps 7;	
OY	12 AOEENEVDREFLNKMDLVRAQLSKKKDKDSQIIT-DTLRDTLEENATVVSIGQAL	70				
	: : : : : : : :					
Db	155 aqwqfihfdtenlrceqkdnelarsardelhhsardemlvynaaakvaserdtldasigeel	214				
	: : : : : : : :					
OY	71 GK-AEM-----LCSTLKKQMRYL-----EQQDDETKQAQEAGRRSRMKMTM	111				
	: : : : : : : :					
Db	215 kvviretelwrkaaseykevtslqnsfglrcqcgedqgreasrlqgsllekfkxwmal	274				
	: : : : : : : :					
OY	112 E-----QIELLSQSLPEVE-----EMTRDMGVQSANEGJLAIVCVSLKKEY	153				
	: : : : : : : :					

Db	275	etechlskrenvllsselsqrqekelmhsqksleltsdlsllqmsrtelemvyslkegh	334
Oy	154	ENLKARARASGEVNDKLKKDLFFSSRSKIQTYYSELDQAKLEKSAQKDLOSADKEIMSLK	213
Db	335	lrsdsdlctllslksaengakdvqkeyekvtvlsel---klkfemteqeqslltdelqck	391
Oy	214	KKLTMLQ	220
Db	392	mlklilr	398

CC	XX	RESULT 23
CC	XX	AAB08316
CC	XX	AAB08316 standard; Protein; 753 AA.
CC	XX	
CC	XX	AAB08316;
CC	XX	
CC	XX	04-DEC-2000 (first entry)
CC	XX	
CC	XX	A human M-phase phosphoprotein-1 polypeptide.
CC	XX	
CC	XX	Human; M-phase phosphoprotein-1; MPp1; mitotic cell; interphase;
CC	XX	Idiopathic ataxia; antigen; autoantibody.
CC	XX	
CC	XX	Homo sapiens.
CC	XX	
CC	XX	CA2290711-A1.
CC	XX	
CC	XX	09-JUN-2000.
CC	XX	
CC	XX	09-DEC-1999; 99CA-2290711.
CC	XX	
CC	XX	09-DEC-1998; 98US-0111633.
CC	XX	
CC	XX	(UYTE-) UNIV TECHNOLOGIES INT INC.
CC	XX	
CC	XX	Fritzler MJ;
CC	XX	
CC	XX	MP1; 2000-565786/53.
CC	XX	
CC	XX	N-PSDB; AAA63952.
CC	XX	
CC	XX	Detecting presence of an antibody associated with ataxia in a
CC	XX	biological sample for diagnosing and treating ataxia, involves
CC	XX	contacting the sample with a peptide comprising a sequence identical to
CC	XX	M-phase phosphoprotein-1
CC	XX	
CC	XX	Claim 35; Page 58-60; 72pp; English.
CC	XX	
CC	XX	The present sequence represents a human M-phase phosphoprotein-1 (MPp1)
CC	XX	polypeptide. MPp1 is strongly expressed in mitotic cells, and is
CC	XX	synthesised during interphase of the cell cycle. A subset of idiopathic
CC	XX	ataxia patients have autoantibodies to the antigen MPp1, and detection
CC	XX	of these autoantibodies is useful in classifying and identifying the
CC	XX	type of ataxia experienced by the patient. The specification describes
CC	XX	a method for detecting the presence of autoantibodies to MPp1 a
CC	XX	biological sample from a patient diagnosed with idiopathic ataxia.
CC	XX	The detection method is useful for diagnosing and treating ataxia.

SQ	Sequence	753 AA;
Query Match	14.2%;	Score 151.5; DB 21; Length 753;
Best Local Similarity	21.3%;	Pred. No.0.00026;
Matches	50; Conservative	62; Mismatches 84; Indels 39; Gaps 6.
OY	22 ELKLNELDNVRAQL-SOKD-----KEK-----RDSQVIIDTLRDLEERNAT----	62
DQ	12 eellegqiekigaevgykxdenmrllkekehkgddlllkekelllgqlkeelgeknvrlldvg	71
OY	63 ---VYSLOALGKAEMLCSTLKKOMKYLEQQODETRQAQEEAGRLRSKMKTWEOJFELLQ	119
DQ	72 iqhvvegratraseltqgvctcykakileketilleltcqkvershakleegdllekessillkle	131

CC The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AAW38642-AAW42213) with nocotropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, hemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, Leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.

XX Sequence 1788 AA:

Query Match 14.2%; Score 151.5; DB 22; Length 1788;

Best Local Similarity 21.3%; Pred. No. 0.00075;
Matches 50; Conservative 62; Mismatches 84; Indels 39; Gaps 6;

QY 22 EFLKNEIDNVRQL-SQKD-----KED-----RDSQYIIDTLRDTLEERNAT--- 62
DB 1047 eelqeklqkgaevkygvdennrlkekhngddllkeelqkqkkelqeknvltdvq 1106
QY 63 ---VSLQALGKAEMLCSTLKQKMYLEQOODETKQAQEFAGRLRSKMTMEQIELLQ 119
DB 1107 lqhvvegrkrralseltqgvkyekakleletlletqvershsaklegdllekeslilkle 1166
QY 120 SQLPEVEEMIDMGVGSQAVQOLAVYCVSLKKEYENL-----KEARKASGE 165
DB 1167 rnlkefeghlqd---svntndlnvkeklkeeltqlnmgdkmhlqlkeeeetrq 1223
QY 166 VADKLKRDLFSSRSKLTQTVYSELDOAKLELKSQAKDQASADKEIMSLKKLTMLQ 220
DB 1224 eteklkeelssasartgnlnadlgrkeedyadlkekildakktqlkvqkvevsm 1278

RESULT 26

AAW63043 standard; Protein: 561 AA.

XX AAW63043;

XX 26-OCT-1998 (first entry)

XX Streptococcus uberis bovine lactoferrin binding protein;

XX Bovine lactoferrin binding protein; LBP; mastitis; vaccine;

KW diagnosis.

OS Streptococcus uberis strain su-1 (ATCC 9927).

XX Key Location/Qualifiers

FT Peptide 1..51

FT /label= sig_peptide

FT /note= "alternative translation start site at

FT Met-11"

FT Protein 52..561

FT /label= mat_protein

FT Region 148..199

FT /note= "central repeated amino acid sequence A1"

FT Region 200..212

FT /note= "central repeated amino acid sequence B1"

FT Region 213..271

FT /note= "central repeated amino acid sequence C1"

FT Region 282..325

FT /note= "central repeated amino acid sequence A2"

FT Region 326..339

FT /note= "central repeated amino acid sequence B2"

FT Region 340..397

FT /note= "central repeated amino acid sequence C2"

FT Peptide 525..530

FT /note= "surface anchor motif"

PN W09821231-A2.

XX 22-MAY-1998.

XX 14-NOV-1997; 97WO-CA00867.

XX 14-NOV-1996; 96US-0031117.

XX (UWSA-) UNIV SASKATCHEWAN.

PI Jjiang M, MacLachlan PR, Potter AA;

XX WPI: 1998-297860/26.

DR N-PSDB: AAV42601.

XX Immunogenic Streptococcus uberis protein(s) that bind bovine

PT lactoferrin - associated regulatory protein, useful in vaccines for

PT treatment and prevention of mastitis

PS Claim 2; Fig 2A-C; 105pp; English.

XX This is the bovine lactoferrin binding protein (LBP) of

CC Streptococcus uberis su-1. Its amino acid sequence was deduced

CC from the novel isolated lbp gene (see AAV42601). The LBP is

CC lactoferrin species-specific; human lactoferrin does not

CC effectively block binding of bovine lactoferrin. The invention

CC provides recombinant vectors, transformed host cells and methods of

CC producing recombinant bovine LBP of S. uberis. The bovine LBP,

CC immunogenic fragments and/or chimeric proteins can be used, either

CC alone or in combination with other antigens, in novel subunit

CC vaccines for the prevention and treatment of S. uberis infections,

CC particularly mastitis, as well as in diagnostic methods for

CC determining the presence of S. uberis infections.

XX Sequence 561 AA;

Query Match 14.2%; Score 151; DB 19; Length 561;

Best Local Similarity 23.1%; Pred. No. 0.0002;

Matches 53; Conservative 53; Mismatches 97; Indels 26; Gaps 7;

QY 10 DLAGEEENVLDREFLNK-----FLDNVRAQLSQKQEKRSQYIITLNDTLEERNATV 63

DB 250 dasrkehealakefaesqkyekeladkhtalgaekrnnadlgaenklemaegis 309

QY 64 VSLQALGKAEMLCSTLKQKMYLEQOODETKQAQEFAGRLRSKMTMEQIELLQSQLP 123

DB 310 ddldqkxymkaegeklsaqleakeelatekakaesekenallteerdaakkaekvp 369

QY 124 EVEE---MTRDMGVGSQAVQOLAVYCVSLKKEYENLKEARKA-SGEVADKLKRD---- 173

DB 370 eleegvkeilveelaaekaeelqgaekglekdeavkaekaealea-klkedhqkev 428

QY 174 -----LFSSRSK-LQTVYSELDOAKLELKSQAKDQASADKEIMSLKKLTMLQ 216

DB 429 dalnalladkekmlknlqgdldkakee--amknegnsgeekaklqael 474

RESULT 27

AAW21227 standard; Protein: 721 AA.

XX AAW21227;

XX 09-MAR-2001 (first entry)

DE Protein encoded by tobacco NtMFP1-1 cDNA.

KW Tobacco; MAR-binding filament-like protein 1; MFPI;
KM matrix attachment region; MAR; anchor protein.
XX
OS Nicotiana tabacum.
XX
FH Key Location/Qualifiers
FT MISC-difference 162
FT /note= "encoded by TC"
FT MISC-difference 672
FT /note= "encoded by GAGATT"
XX
PN WO200061615-A2.
XX
PD 19-OCT-2000.
XX
PF 12-APR-2000; 2000WO-US09723.
XX
PR 12-APR-1999; 990S-0128900.
XX
PA (DUPO) DU PONT DE NEMOURS & CO E. I.
XX
PI Harder PA, Meier I;
XX
XX MPI; 2000-679464/66.
DR N-PSDB; AAA95801.
XX
XX Nucleic acid fragments from tobacco, corn, soybean and rice, encoding
PT proteins that are homologs to the MAR binding filament-like protein.1
PT (MFPI), useful for development of novel phenotypes -
XX
XX
XX Claim 4; Page 45-47; 62pp; English.
XX
XX The present sequence is encoded by NtMFPI-1 cDNA from tobacco. It is
CC a homologue of the matrix attachment region (MAR) binding
CC filament-like protein 1 (MFPI) from tomato. MFPI has features of a
CC novel anchor protein that most likely connects chromatin via MAR DNA with
CC the nuclear envelope and nuclear filament proteins. MFPI nucleic acids
CC and proteins may be used to better understand the mechanisms underlying
CC this process so that the attachment of transgenes to the nuclear matrix
CC may be used routinely to improve gene expression. They may be used to
CC study MFPI expression, leading to the creation of novel developmental
CC phenotypes that may be beneficial for crop growth and development. In
CC addition, if the reduction in expression of one of the genes leads to a
CC growth or developmental defect in the plant, this gene can be used as a
CC novel herbicide target.
CC
XX
SQ Sequence 721 AA;

Query Match 14.2%; Score 151; DB 21; Length 721;
Best Local Similarity 23.1%; Pred. No. 0.00027;
Matches 55; Conservative 46; Mismatches 99; Indels 38; Gaps 6;

QY 5 NKLFFDLAEEENVLDREFLNELDNVRAQLSQKDKERDSQVIITDRLPTLEERNATVV 64
DB 400 nlladitgkqenl--rrimdaelenl-----skllkevq-----tgetlekrdsas 446
QY 65 SLDQALCKAEMLCSTLKKQKYLEQOQDERK-----QAQENAGRLRSKMTMEQIEL 116
DB 447 dlaqqlqgqsthlcskleaevsklqmeleetrtslrrnidetkryaelaelttre-- 503
QY 117 LLSQLEVEEMIRDMGVGSAVEQLAVYCVSLKKEYENLEKARKASGEVADKLKDLF- 175
DB 504 llkktnehmthmsheilaavencdnlqtelvdykkkaeraadelkqeknlvltleketlf 563
QY 176 -----SSRSKLQTVVSELDQAKLELKSQAQKDLQSAQDKKESMSLKKKLTMLQ 220
DB 564 leaqttrkesrnlleeeleeratesldemrnatlalakelelanshsstederevqj 621

RESULT 28
AAM78520
ID AAM78520 standard; Protein: 990 AA.

XX
AC AAM78520;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human protein SEQ ID NO 1182.
XX
XX Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KM vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KM tissue growth factor; immunomodulatory; cancer; leukaemia;
KM nervous system disorder; arthritis; inflammation.
XX
OS Homo sapiens.
XX
PN WO200157190-A2.
XX
PD 09-AUG-2001.
XX
PF 05-FEB-2001; 2001WO-US04098.
XX
PR 03-FEB-2000; 2000US-0496914.
PR 27-APR-2000; 2000US-0560875.
PR 20-JUN-2000; 2000US-0598075.
PR 19-JUL-2000; 2000US-0620325.
PR 01-SEP-2000; 2000US-0654936.
PR 15-SEP-2000; 2000US-0663561.
PR 20-OCT-2000; 2000US-0693325.
PR 30-NOV-2000; 2000US-0728422.
XX
XX (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Dymnac RF, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
PI Xue AJ, Yang Y, Wejrtman T, Goodrich R;
XX
DR MPI; 2001-476283/51.
DR N-PSDB; AAK51653.
XX
XX Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -
XX
XX
XX Claim 20; Page 3425-3427; 6221pp; English.
XX
XX The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAM78323-AAAM80302) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activity/inhibit activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.
XX
XX
SQ Sequence 990 AA;

Query Match 14.1%; Score 150; DB 22; Length 990;
Best Local Similarity 24.6%; Pred. No. 0.00048;
Matches 60; Conservative 49; Mismatches 95; Indels 40; Gaps 8;

QY 13 QEEENVLDREFLNELDNVRAQLSQKDKERDSQ---VIITDRLPTLEERNATVSLQA 69
DB 713 enklesekeqllkqllllksafkterlevsygldlengrlqkltlenknkkgqlese 772
QY 70 LGRKAEMLCSTLKKOM-----KYLEQOQDERKQAQENAGRLRSKMTMEQIELLQSL 122
DB 773 lqdltemengtlqknleelkiskrlqeklenksleqetqlkdkkqlekenkrlrqga 832

```
QY 123 PEVEEMIRDMGV-----GQSAVEQLAVY---CVSLRK-EYENLKEARKSGEVAD-- 168
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 833 elkdttleennvkiqnlkenkltsklskejgikescvrlkekenkelvratridiktlv 892
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 169 KLKRDLPSSRSKLTQTVVSELDQAKLELKS-----AKQDQSD------KEIMSL 212
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 893 fliredlvsekltqgmndleklcheleklqInkerllhdqsgtdsryklleakleesti 952
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 213 KKKL 216
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 953 kksl 956

RESULT 29
AAV15457
ID AAV15457 standard; Protein: 1761 AA.
XX
AC AAV15457;
XX
DT 26-JUL-1999 (first entry)
XX
DE Human laminin beta 4 protein.
XX
KW Laminin 12; alpha 2; beta 1; gamma 3; subunit; nerve regeneration;
KW connective tissue adhesion; tissue repair; wound; nerve growth;
KW laminin beta 4.
XX
OS Homo sapiens.
XX
PN W09919348-A1.
XX
PD 22-APR-1999.
XX
PF 08-OCT-1998; 98MO-US21391.
XX
PR 10-OCT-1997; 97US-0061609.
XX
PA (GEHO ) GEN HOSPITAL CORP.
XX
PI Brunken W, Burgeson RE, Champlaud M, Koch M, Olson P;
XX
DR WPI; 1999-326542/27.
XX
DR N-PSDB; AAX59765.
XX
PT Purified laminin 12 useful for promoting tissue repair and promoting
PT nerve growth
XX
PS Disclosure; Page 59-64; 86pp; English.
XX
CC The specification describes laminin 12 which includes an alpha 2, beta 1
CC and gamma 3 subunit. Laminin is a connective tissue adhesion molecule.
CC Laminin is useful for promoting tissue repair due to wounds
CC and to promote nerve growth or regeneration. The present sequence
CC represents human laminin beta 4.
XX
SQ Sequence 1761 AA;

Query Match 14.08; Score 149.5; DB 20; Length 1761;
Best Local Similarity 23.8%; Pred. NO. 0.0011;
Matches 61; Conservativity 49; Mismatches 99; Indels 47; Gaps 9;

QY 12 AGEENV---LDREF--LKNELDNVRAQL-----SQDKERKDSQVI 48
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1422 ageekslirndkqvirknglesiseqaeavsknaqlrleklgnirngdseseenlfl 1481
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 49 IDTLRDLLEERNATVSLQQAIG-----KAEMLCSTLKQMKYF---EQOODETK 95
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1482 lkvkknflleenvpriediekvangvldihpipsqnltdelvkqikmqjcedyrtdeur 1541
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 96 QAOEAG--RLRSKMKTMEO--TELLLOSQPEVEEMIRDMGVGQSAVEQLAVYCVSLK 150
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1542 sneadgaqrllykakaakaanillnldkrlnglqagqltqgranstltqltanlcklk 1601
```

```
QY 151 K---EYENLKEARKSGEVADK---LRKRDLPSSRSKLTQTVVSELDQAKLELKSQKDQS 204
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1602 knvlgaeqntremkselelaqrsjledgslslqtklqrhqdhavnakvgaesqhags 1661
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 205 ADKEIMSLKKRLTMQ 220
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1662 lekefvellkqyalql 1677

RESULT 30
AAB29659
ID AAB29659 standard; Protein: 359 AA.
XX
AC AAB29659;
XX
DT 23-FEB-2001 (first entry)
XX
DE Human membrane-associated protein HUMAP-16.
XX
KW Human membrane-associated protein; HUMAP; transgenic organism;
KW drug screening; cell signalling modulator; agonist; antagonist;
KW cell differentiation modulator; cell proliferation modulator;
KW cell proliferative disorder; cancer; cell differentiation disorder;
KW developmental disorder; cell signalling disorders; endocrine disorder;
KW hyperpituitarism; hypothyroidism; hyperparathyroidism; infection;
KW pancreatic disorder; diabetes mellitus; immunological disorder;
KW hereditary neuropathy; gonadal steroid hormone associated disorder;
KW infertility.
XX
OS Homo sapiens.
XX
PN W0200065054-A2.
XX
PD 02-NOV-2000.
XX
PF 20-APR-2000; 2000MO-US10884.
XX
PR 23-APR-1999; 99US-0130694.
XX
PR 23-JUN-1999; 99US-0140580.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Hillman JL, Bandman O, Tang YF, Lal P, Yue H, Reddy R, Azimzal Y;
XX
PI Baughn MR;
XX
DR WPI; 2000-687346/67.
XX
DR N-PSDB; AAC64289.
XX
PT Human membrane-associated protein, useful for diagnosis and treatment
PT of cell signaling, cell differentiation and cell proliferation
PT disorders such as cancer, and for identifying agonists and antagonists
XX
PS Claim 1; Page 86-87; 99pp; English.
XX
CC The invention relates to 17 human membrane-associated proteins,
CC HUMAP-1 to HUMAP-17 (AAB29644-B29660) and the cDNAs encoding them
CC (AAC64274-C64290). The invention also relates to expression constructs,
CC host cells and transgenic organisms comprising a HUMAP nucleic acid
CC sequence; the recombinant preparation of a HUMAP; methods of screening
CC compounds for their ability to modulate HUMAP activity or expression;
CC and pharmaceutical compositions comprising a HUMAP protein, a HUMAP
CC agonist or HUMAP antagonist. The HUMAPs acts as modulators of cell
CC signalling, differentiation and proliferation. A HUMAP is useful for
CC screening a compound for effectiveness as an agonist or antagonist of
CC HUMAP activity. The protein, or the identified agonist or antagonist is
CC useful for treating a disease or condition associated with decreased or
CC increased expression of functional HUMAP. A HUMAP nucleic acid is useful
CC for screening a compound for its ability to alter expression of that
CC particular HUMAP gene. A wide variety of disease may be treated using
CC compositions of the invention. These diseases include cell proliferative
CC disorders (e.g., actinic keratosis, arteriosclerosis); cancer (e.g.,
```

CC breast, bladder, bone marrow, brain and uterine cancer); cell
CC differentiation disorders, in particular developmental disorders (e.g.,
CC renal tubular acidosis, anaemia, Cushing's syndrome, achondroplasia,
CC epilepsy, and muscular dystrophy); cell signalling disorders, in
CC particular endocrine disorders such as hypochlaemia and pituitary
CC disorders resulting from lesions such as thrombosis; disorders
CC associated with hyperpituitarism (e.g., acromegaly); disorders associated
CC with hypothyroidism (e.g., goitre); hyperparathyroidism; pancreatic
CC disorders such as type I or type II diabetes mellitus; infections;
CC immunological disorders; hereditary neuropathies (e.g.,
CC neurofibromatosis); and disorders associated with gonadal steroid
CC hormones (e.g., infertility, endometriosis, polycystic ovary syndrome,
CC osteoporosis, Leydig cell deficiency and gynecomastia). Antibodies which
CC specifically bind HUMAP may be used for the diagnosis of disorders
CC associated with the expression of HUMAP, or in assays to monitor patients
CC being treated with HUMAP or agonists, antagonists or inhibitors of HUMAP.
CC The present sequence represents a HUMAP of the invention.

XX
SQ Sequence 359 AA;

Query Match 14.0%; Score 149; DB 21; Length 359;
Best Local Similarity 24.3%; Pred. No. 0.00017;
Matches 70; Conservative 51; Mismatches 91; Indels 76; Gaps 11;

QY 1 RTIINKLFDAOEENVLDRFLKNELDN-----VRAQL-----SOKDEKRDQV 47
DB 48 rtsqkfcclqaltee---erkayrnqveestkqlqylqalqlrhltdenlreekde- 103
QY 48 IIDLRLDTL-----EERNATVSLQALGK--AEW-----LCSTLRK 82
DB 104 -lstrdelldlsardeilllqhgaakvaserdtldasqelkkyraetlerkrkaaseyek 162
QY 83 QMKTL-----EQQODETRKQAOEAGRLSKKTKTE-----QIELLIQSLP 123
DB 163 eltslqnsfqlrcqceqdgreetrlqgeleklrkemaltechsikrenvllsseldq 222
QY 124 EVE-----EMIRDMGVQSAVEQLAVVYCVSLKKEVENLKEARKSGEVAADKLK 172
DB 223 rqeekelnhsqgsleltsdlsilqmsrkelengyslkeqhlrsadklklkskaengak 282
QY 173 DLFSRSRKLQTVYSELDOAKLELSAOKDLQSADEKIMSLKKLTMLQ 220
DB 283 dvqeyekktgvtltsel---kikfemtegekgtlcelkqcknmklklr 327

RESULT 31

AAW78880
ID AAW78880 standard; Protein: 963 AA.

XX
AC AAW78880;

XX
DT 06-NOV-2001 (first entry)

XX
DE Human protein SEQ ID NO 1542.

XX
KW Human: cytokine; cell proliferation; cell differentiation; gene therapy;

KW vaccine; peptide therapy; stem cell growth factor; hematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukemia;

KW nervous system disorder; arthritis; inflammation.

XX
OS Homo sapiens.

XX
PN MO200157190-A2.

XX
PD 09-AUG-2001.

XX
PF 05-FEB-2001; 2001WO-US04098.

XX
PR 03-FEB-2000; 2000US-0496914.

XX
PR 27-APR-2000; 2000US-0560875.

XX
PR 20-JUN-2000; 2000US-0598075.

XX
PR 19-JUL-2000; 2000US-0620325.

PR 01-SEP-2000; 2000US-0654936.
PR 15-SEP-2000; 2000US-0663561.
PR 20-OCT-2000; 2000US-0693325.
PR 30-NOV-2000; 2000US-0728422.

XX
PA (HYSE-) HYSEQ INC.

XX
PI Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;

PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;

PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;

XX
DR WPI; 2001-476283/51.

XX
DR N-PSDB; AAK52013.

PT Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -

XX
PS Claim 20; Page 3856-3858; 6221pp; English.

CC The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAW78323-AAW80302) that exhibit activity relating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAW80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.

XX
SQ Sequence 963 AA;

Query Match 13.9%; Score 148.5; DB 22; Length 963;
Best Local Similarity 21.5%; Pred. No. 0.00062;
Matches 67; Conservative 55; Mismatches 94; Indels 95; Gaps 9;

QY 4 INKLFDAOEENVLDRFLKNELDN-----VRAQL-----SOKDEKRDQV 47

DB 425 faklykqddkdeingssqlveklkqmdgeelastrrdgmngaelnrlgaendas 484

QY 37 -----QKDEKRDQVITIDRLTLERNAATVVSLOQALGK----- 72

DB 485 keevkeylgaalejavnydqksgevedktheyellsdelnqksatlsldeqlkikemt 544

QY 73 -----AEMLCSTLK-----KOMVLEEQODETRKQAOEAGRLSKKTKTE----- 111

DB 545 nhqkkrasaaemasllkdaieiglavgndvkgpegtimideefvartylskmseyvktm 604

QY 112 ----EQLLELLQSLPEVEEMIRDMGVQSAVEQLAVVYCVSLKKEVENLKEARKSGEVA 167

DB 605 vkrcqglestqtsenkkmeenekeelaacqlrlsqheaklslteylqvevqktrqleesv 664

QY 168 DLKRLDLFSR-----SKLOTVYSELDOA-----KLELSAOKDLQSADEKIMSLKKLTMLQ 209

DB 665 dalseeivqlragkvhemekelnkvgtla-newgavagqigshrethqgisslrdev 723

QY 210 MSKKKLTMLQ 220

DB 724 eakaklltdldq 734

RESULT 32

AAW79864
ID AAW79864 standard; Protein: 979 AA.

XX
AC AAW79864;

XX
DT 06-NOV-2001 (first entry)

XX Human protein SEQ ID NO 3510.
DE
XX
XX Human: cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; hematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; Leukemia;
KW nervous system disorder; arthritis; inflammation.
OS
XX Homo sapiens.
PN MO200157190-A2.
PD
XX 09-AUG-2001.
PF
XX 05-FEB-2001; 2001WO-US04098.
XX
XX 03-FEB-2000; 2000US-0496914.
PR 27-APR-2000; 2000US-0560875.
PR 20-JUN-2000; 2000US-0598075.
PR 19-JUL-2000; 2000US-0620325.
PR 01-SEP-2000; 2000US-0654936.
PR 15-SEP-2000; 2000US-0663561.
PR 20-OCT-2000; 2000US-0693335.
PR 30-NOV-2000; 2000US-0728422.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
PI Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
PI Xue AA, Yang Y, Wehrman T, Goodrich R;
XX
XX WPI: 2001-476283/51.
DR N-PSDB: AAK52997.
XX
XX Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -
XX
XX Claim 20: Page 365-366; 6221pp; English.
XX
XX The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAK78323-AAK80302) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAK80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.
XX
XX Sequence 979 AA;
SQ

Query Match 13.9%; Score 148.5; DB 22; Length 979;
Best Local Similarity 21.5%; Pred. No. 0.00063;
Matches 67; Conservative 55; Mismatches 94; Indels 95; Gaps 9;

OY 4 INKLFPLDAEENV-----LDREFL-----KNELDNVRAQLS----- 36
DB 440 Iaklykqlddkeelngsqvleklkqmdgeellastrrdqmgaelnrlgaendas 499
OY 37 -----QKDKERDSQVITITLRLDTLEERNATVVSLOQALGK----- 72
DB 500 keevkeylqaleelavnydksgevedktkeyellsdelngksatlaslaeqlklkemt 559
OY 73 -----AEMICSTLK-----KOMKYLEQQODETFKQAGEARLSKMKMT 111
DB 560 nhqktraaemasllkdlaeiglavgnndvkvpgctgmideefvarlylskmsvxtm 619

OY 112 ----EQIELLLQSLPEVEEMIRDMGQSAVEQLAVVCSLKKEYENLKEARKASGEVA 167
DB 620 vkrcqqlsetqtesnkkmeenekeelaacqlrlsqheaklaltleylqnvveqkkrrleesv 679
OY 168 DKLRKDLFSSR-----SKLOTYSELDOA-----KLELKSQKDLDSADKEI 209
DB 680 dalseelvgllragekvhemekhlnkvgtanvkqgaveqqlqshrethqqlqslrdev 738
OY 210 MSLKKKLTMLQ 220
DB 739 eakakliltldiq 749

RESULT 33
ABB59344
ID ABB59344 standard; Protein: 2056 AA.
XX
XX ABB59344;
AC
XX
XX 26-MAR-2002 (first entry)
DT
XX
XX Drosophila melanogaster polypeptide SEQ ID NO 4824.
DE
XX
XX Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical.
XX
XX Drosophila melanogaster.
OS
XX
XX WO200171042-A2.
PN
XX
XX 27-SEP-2001.
PD
XX
XX 23-MAR-2001; 2001WO-US09231.
PE
XX
XX 23-MAR-2000; 2000US-191637P.
PR 11-JUL-2000; 2000US-0614150.
XX
XX (PEKE) PE CORP NY.
PA
XX
XX Venter JC, Adams M, Li PWD, Myers EW;
PI
XX
XX WPI: 2001-656860/75.
DR N-PSDB: ABL03447.
XX
XX New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -
XX
XX Disclosure: SEQ ID NO 4824; 21pp + Sequence Listing; English.
XX
XX The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC sequences (ABL01840-ABL16175) and the encoded proteins
CC (ABB57737-ABB72072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 2056 AA;
SQ

Query Match 13.8%; Score 147.5; DB 22; Length 2056;
Best Local Similarity 23.7%; Pred. No. 0.0019;
Matches 57; Conservative 49; Mismatches 102; Indels 33; Gaps 7;

OY 1 RTIINKLFLPLDAEENVLDREFLKNELDNVRAQLSQKDKKR--DSQVIT-----ID 50
DB 1302 ktvleakagylaeenad-----latelrsvnsrrgndrrrrkqaesqlaelqyvlaele 1355

QY 51 TLRDPTLEENNAIVSLQO-----ALGKRAEMCLSTLKKQMKLLEEQQDDTKQAQAEAGR 103
Db 1356 rarselqex---ctkqgeaenltungleeaelkasaavksasmesqllteaqlleeetr 1412
QY 104 ----LRSKKRTMEQJELLQSQOLPEVEEMRDVGQCSAVEOLAVYCVSLKREYENLKEA 159
Db 1413 qklglgskrtirgleseakealqegleeddeakrny----erklavettmqeikkkxaeada1 1469
QY 160 KRASEVADKLRLKEFFSSRSKLTQTVYSELDQAKLELKSADKQDSADKEIMSLKKLTML 219
Db 1470 akeleegxkrllkldiealerqvkelliaqndrldksskkkqsgleedattleagrtkvt1el 1529
QY 220 Q 220
Db 1530 e 1530
RESULT 34
ABG06505
ID ABG06505 standard; Protein; 2633 AA.
XX ABG06505;
AC
XX
XX 13-FEB-2002 (first entry)
DT
XX
XX Novel human diagnostic protein #6496.
DE
XX
XX Human: chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder.
XX
XX Homo sapiens.
OS
XX WO200175067-A2.
PN
XX
XX 11-OCT-2001.
PD
XX
XX 30-MAR-2001; 2001WO-US08631.
PF
XX
XX 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
XX (HSE-) HSEQ INC.
PA
XX
XX Drmanac RT, Liu C, Tang YP;
PI
XX
XX WPI: 2001-639362/73.
DR N-PSDB: AAS70692.
XX
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
PS
XX
XX Claim 20; SEQ ID NO 36864; 103bp; English.
PS
XX
XX The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.

CC	Note:	The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO.
CC	at	ftp.wipo.int/pub/published_pct_sequences.
XX		
SQ	Sequence	2633 AA;
	Query Match	13.8%; Score 147.5; DB 22; Length 2633;
	Best Local Similarity	25.1%; Pred. No. 0.0026;
	Matches 57; Conservative	48; Mismatches 91; Indels 31; Gaps
OY	13 QEEENVLDREFLNELNDNVRAGLSQKDKK-RDSQVITDITRLRLEERNATVYSLQALG 71	: : : : : : : : : : : : : : : : : : : : : : : : :
Dd	1638 etgkmecldehlkeqetqlklnenletenlltqt-----lhenleemr-svtkerddlr 1692	: : : : : : : : : : : : : : : : : : : : : : : : :
OY	72 KAEMLCSTLKOKKKYVEEQODER----KOAGEAG----PLRSKMKTMEQIELLQSOLP 123	: : : : : : : : : : : : : : : : : : : : : : : : :
Dd	1693 sve---elkyverdqkenretlritdlekgaelkiymhlkhegetidklrgivsektn 1749	: : : : : : : : : : : : : : : : : : : : : : : : :
OY	124 EVEEMIRDMGVGSAY-----EQLAVYCYSLEKEYENLEARKASGEVADKL--RK 172	: : : : : : : : : : : : : : : : : : : : : : : : :
Dd	1750 eismmgqdlehnsndalkeqdlkigeelliahmhlkegetidklrlgivsektklsmmq 1809	: : : : : : : : : : : : : : : : : : : : : : : : :
OY	173 DLSSRSKLOPVYSELDQAKLEIKSAQKDLOSADX---EIMSLKKKL 216	: : : : : : : : : : : : : : : : : : : : : : : : :
Dd	1810 dlenasnakiqekiqelkanehgjltlkdkvdnetqkvksemeqikkqi 1856	: : : : : : : : : : : : : : : : : : : : : : : : :
RESULT 35		
AAM39097		
ID	AAM39097 standard; Protein; 2663 AA.	
AC		
XX	AAM39097;	
XX		
DT	22-OCT-2001 (first entry)	
XX		
DE	Human polypeptide SEQ ID NO 2242.	
KW	Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Dragger Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation; leukaemia.	
KM		
KX		
OS	Homo sapiens.	
XX		
PN	WO200153312-A1.	
PD		
XX	26-JUL-2001.	
PF		
XX	26-DEC-2000; 2000MO-US34463.	
PR		
XX	21-JAN-2000; 2000US-0488725.	
PR	25-APR-2000; 2000US-0552317.	
PR	09-JUL-2000; 2000US-0598042.	
PR	19-JUL-2000; 2000US-0620312.	
PR	03-AUG-2000; 2000US-0653450.	
PR	14-SEP-2000; 2000US-0662191.	
PR	19-OCT-2000; 2000US-0693036.	
PR	29-NOV-2000; 2000US-0727344.	
XX		
PA	(HYSE-) HYSEQ INC.	
XX		
P1	Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;	
P1	Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;	
P1	Zhao QA, Zhou P, Goodrich R, Drmanac RT;	
XX		
DR	WPI: 2001-442253/47.	
XX	N-PSSDB; AAI58253.	
PT	Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries -	

```
XX XX Example 4: SEQ ID NO 2242; 10078bp; English.
PS PS
CC CC The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX XX
SQ Sequence 2663 AA;

Query Match 13.8%, Score 147.5; DB 22; Length 2663;
Best Local Similarity 25.1%; Pred. No. 0.0026;
Matches 57; Conservative 48; Mismatches 91; Indels 31; Gaps 9;

OY 13 QEEENVLDREFLNELNDVNRALQSOKDEK-RDSQVIIDTLRDTLEERNATVVSUQALG 71
DB 1638 etgekmeceiehlkegfefqklnlenietenirliqi-----lhenleemr-svtkerddlr 1692
OY 72 KAEMLCSTLKRQMKYLEEQODET-----KQAGEAG-----RLRSKMKTMEOIELLQSQLP 123
DB 1693 sve---etlkverdqklnlettrldlekgeelkivmhkhegetidkigrivsektkn 1749
OY 124 EVEEMIRMGVGO$AV-----EQLAVYCVSLKKEVENLKEARKASGEVADKL---RK 172
DB 1750 eismmqkdlensndalkaqdlikigeelrlamhikhegetidkigrivsektidkismmqk 1809
OY 173 DLFSSRSKLTQVYSELDAQLELSAOKDLSADK---EIMSLKKKL 216
DB 1810 dlensnalkigekigekanehqililikkdvnetqkksvemeqilkkqi 1856

RESULT 36
AAM40883
ID AAM40883 standard; Protein: 2688 AA.
XX
AC AAM40883;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human polypeptide SEQ ID NO 5814.
XX
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia.
XX
OS Homo sapiens.
XX
PN WO200153312-A1.
XX
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000MO-US34263.
XX
PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-052317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
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PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YF, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QH, Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI: 2001-442253/47.
DR N-PSDB: AA160039.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
XX Example 2: SEQ ID NO 5814; 10078bp; English.
PS PS
CC CC The invention relates to human nucleic acids (AA157798-AA161369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX XX
SQ Sequence 2688 AA;

Query Match 13.8%, Score 147.5; DB 22; Length 2688;
Best Local Similarity 25.1%; Pred. No. 0.0027;
Matches 57; Conservative 48; Mismatches 91; Indels 31; Gaps 9;

OY 13 QEEENVLDREFLNELNDVNRALQSOKDEK-RDSQVIIDTLRDTLEERNATVVSUQALG 71
DB 1662 etgekmeceiehlkegfefqklnlenietenirliqi-----lhenleemr-svtkerddlr 1716
OY 72 KAEMLCSTLKRQMKYLEEQODET-----KQAGEAG-----RLRSKMKTMEOIELLQSQLP 123
DB 1717 sve---etlkverdqklnlettrldlekgeelkivmhkhegetidkigrivsektkn 1773
OY 124 EVEEMIRMGVGO$AV-----EQLAVYCVSLKKEVENLKEARKASGEVADKL---RK 172
DB 1774 eismmqkdlensndalkaqdlikigeelrlamhikhegetidkigrivsektidkismmqk 1833
OY 173 DLFSSRSKLTQVYSELDAQLELSAOKDLSADK---EIMSLKKKL 216
DB 1834 dlensnalkigekigekanehqililikkdvnetqkksvemeqilkkqi 1880

RESULT 37
AAG46982
ID AAG46982 standard; Protein: 746 AA.
XX
AC AAG46982;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 59165.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
```

XX Arabidopsis thaliana.
OS
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123160.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.

PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
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PR 19-JUL-1999; 99US-0144333.
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PR 19-JUL-1999; 99US-0144335.
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PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
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PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
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PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
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PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151348.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.

PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159299.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159689.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
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PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 13.7%; Score 146; DB 21; Length 746;
Best Local Similarity 25.4%; Pred. No. 0.00072;
Matches 68; Conservative 37; Mismatches 31; Indels 72; Gaps 10;

QY 13 QEEENVLDREF-----LNKELDNVRAQ-----LSQKDEKRDQSQYIIDTL 52
Db 131 qkekddldarfrevnetarassqhsmsqgelertcrganealkmdaerqqlrsanrk 190
QY 53 RDTLEB-----RNATVVSLOQALGKAMLCSTLKKQMKVLEQOD----- 92
Db 191 rdtleelgsjlpkenkietlqgsldkqjledlkqjgaveerkqlavlelsakhkn 250
QY 93 -ETKOAEAGRLRSKMKMTWEOIELLOSOLPEVEMIRDMGVG-----QSAVEOLA 143
Db 251 legleaq-vvdalserdkaetis-slgvllaekesklameaataetgaarlraaetck 308
QY 144 VCVSLKKEVLENKE-----ARKASGEVAD-----KLKRDLFSSRSKLTQTVY 185
Db 309 gelahkesekeketwaescdalsksklelaesnylgaelelvakmrtsqigemsmtqtl 368
QY 186 SELQAKLELKSQCKDLOSADKEIWSLK 213
Db 369 stkd---aelkgareelnrlqsefsyk 393

RESULT 38
AAG46981
ID AAG46981 standard; Protein; 788 AA.
XX

AC AAG46981;
XX 18-OCT-2000 (first entry)
DT Arabidopsis thaliana protein fragment SEQ ID NO: 59164.
XX Arabidopsis thaliana protein fragment SEQ ID NO: 59164.
DE protein identification; signal transduction pathway; metabolic pathway;
XX hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
OS Arabidopsis thaliana.
XX Ep1033405-A2.
XX 06-SEP-2000.
PD 25-FEB-2000; 2000EP-0301439.
PF 25-FEB-1999; 99US-0121825.
XX 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125789.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136382.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.

QY 186 SELDOAKLELSAQKDLQSDAKREIMSLK 213
 Db 411 stkd---aelkgareelnrlqsetssy 435

RESULT 39

AAM79504
 ID AAM79504 standard; Protein; 931 AA.

AC AAM79504;

DT 06-NOV-2001 (first entry)

DE Human protein SEQ ID NO 3150.

KM Human; cytokine; cell proliferation; cell differentiation; gene therapy;

KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;

KW tissue growth factor; immunomodulatory; cancer; leukaemia;

KW nervous system disorder; arthritis; inflammation.

OS Homo sapiens.

PN WO200157190-A2.

PD 09-AUG-2001.

PE 05-FEB-2001; 2001WO-US04098.

PR 03-FEB-2000; 2000US-0496914.

PR 27-APR-2000; 2000US-0560875.

PR 20-JUN-2000; 2000US-0598075.

PR 19-JUL-2000; 2000US-0620325.

PR 01-SEP-2000; 2000US-0654936.

PR 15-SEP-2000; 2000US-0663561.

PR 20-OCT-2000; 2000US-0693325.

PR 30-NOV-2000; 2000US-0728422.

PA (HYSE-) HYSEQ INC.

PI Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;

PI Zhao QA, Wang D, Zhang J, Ren F, Chen R, Wang ZW;

PI Xue AQ, Yang Y, Wejhrman T, Goodrich R;

DR WPI: 2001-476283/51.

DR N-PSDB; AAK52637.

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QY 13 QEEENVLDREFLAKNELDNVRAQLSQDKREKRSQ---VIIDTLRDTLEERNATVSIQQA 69
 Db 654 enkelesekeglkkkgylelksfkkterlewsygltdiengrklgtlenakkkqglese 713

QY 70 LGKAEMLCSTLKKOM-----KYLEBOQODEFTKOAEBAKLRKMKMTMEQIELLQSOL 122
 Db 714 lqdlmemngtlqknlleelkskrleqlekenksleqetgqlkqkglekenrlryga 773

QY 123 PEVEEMIRDMGV-----GOSAVBOLAVY---CVSLKK-EYENLKEARKASGEVAD-- 168
 Db 774 eikotltleennvknlglenkenklstkeiglykescvrlleeklenkelvratlditlv 833

QY 169 KLRKDLFSSRSKLTQTVSYSELDOAKLELS-----AQKDLQSD-----KEIMSL 212
 Db 834 tlredlvseklktqgmndleklheleklqglnerllhdegstdsarykllseklestl 893

QY 213 KKKL 216

Db 894 kksl 897

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RESULT 40

ABG01723
 ID ABG01723 standard; Protein; 1851 AA.

AC ABG01723;

DT 13-FEB-2002 (first entry)

DE Novel human diagnostic protein #1714.

KM Human; chromosome mapping; gene mapping; gene therapy; forensic;

KW food supplement; medical imaging; diagnostic; genetic disorder.

OS Homo sapiens.

PN WO200175067-A2.

PD 11-OCT-2001.

PR 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

PA (HYSE-) HYSEQ INC.

PI Drmanac RT, Liu C, Tang YT;

PI N-PSDB; AAS65910.

DR WPI: 2001-639362/73.

DR N-PSDB; AAS65910.

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Query Match 13.74; Score 146; DB 22; Length 931;
 Best Local Similarity 24.28; Pred. No. 0.00095;
 Matches 59; Conservative 50; Mismatches 95; Indels 40; Gaps 8;

The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78333-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation and/or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activity/inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation.

Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the sequence listing were missing at the time of publication.

Claim 20; SEQ ID NO 32082; 103pp; English.

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations

CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG0010-ABG0377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pcl_sequences.

XX
SQ Sequence 1851 AA;

Query Match 13.6%; Score 145.5; DB 22; Length 1851;
Best Local Similarity 25.0%; Pred. No. 0.0025;
Matches 54; Conservative 52; Mismatches 93; Indels 17; Gaps 8;

QY 10 DLAGEENVLDREFLNELDNVRAQLSQKDKERDSQYIITLDRDTLEERNATVVSLOQA 69
DB 1094 dlgeelael--kteledldstaagelrskregevnllkktleeaaktheaqlqemrqk 1151
QY 70 LGKA-EMLCSTLKQOMKYLEQQODETRQAOE-EAGRLRSKMKMTMEQIEILLQSOLPEVEE 127
DB 1152 hsgaveelaegl-egtkrvkanlekakqtlenergelanewkrkk-----veaqlqelqy 1205
QY 128 MIRMGVGQSAVEDLAVYCVSLKKEYENLKEARKASGEVADKLRRDLFSSRSKL--QTV 184
DB 1206 kfine--gervrteladkvtklqveldnvpgllsgsdksksklckdfsalessqlqdtqel 1262
QY 185 YSELDQAKLELKSQKDLQASADKEIM-SLKKKLTML 219
DB 1263 lqeenrqklstsklkqleeeeeeaknhlekqiatl 1298

Search completed: September 4, 2002, 16:09:10
Job time: 8134 sec

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